



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Rainer Pommersheim Examiner: Unassigned
Serial No.: 10/587,494 Group Art Unit: Unassigned
Filed: July 26, 2006 Docket No.: 1374-3 PCT/US
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For: MICROCAPSULE WITH Dated: September 19, 2006
CONTROLLABLE OR DELAYED
RELEASE FOR THE
IMMOBILIZATION OF CHEMICAL
AND/OR BIOLOGICAL MATERIALS,
AND METHOD FOR THE
PRODUCTION THEREOF

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On: September 19, 2006
Signature: Christian P. Bodner
Christian P. Bodner

INFORMATION DISCLOSURE STATEMENT

Sir:

In order to fulfill the requirements of candor and good faith set forth in 37 C.F.R.

§1.56, Applicant submits herewith the following Information Disclosure Statement in
accordance with the provisions of 37 C.F.R. §1.97 and §1.98.

UNITED STATES PATENTS

<u>PATENTEE</u>	<u>PATENT NO.</u>	<u>ISSUE DATE</u>
Franklin Lim, et al.	4,389,419	June 21, 1983

FOREIGN PATENT APPLICATIONS

<u>COUNTRY</u>	<u>APPLICATION NO.</u>	<u>PUBLICATION DATE</u>
Germany	DE19644343A1	April 30, 1998
Germany	DE19918267A1	October 26, 2000
EPO	EP0782853B1	July 9, 1997
Germany	DE2215441	October 12, 1972
Great Britain	GB1471406	April 27, 1977
Germany	DE4312970A1	October 27, 1994

NON-PATENT PUBLICATIONS

Pommersheim, *Die Verkapselung*, Mehrschichtige Polelektrokomplex-Mikrokapselsysteme Zur Immobilisierung Von Enzymen Und Lebenden Zellen, 1994, pages 1-32, XP002968623.

Pommersheim, *Physikalische Eigenschaften der Kapsel*, Mehrschichtige Polelektrokomplex-Mikrokapselsysteme Zur Immobilisierung Von Enzymen Und Lebenden Zellen, 1994, pages 88-98, XP002968624.

Pommersheim, *Verkapselung von lebenden Zellen*, Mehrschichtige Polelektrokomplex-Mikrokapselsysteme Zur Immobilisierung Von Enzymen Und Lebenden Zellen, 1994, pages 1-24, XP002968625.

Riling, et al., *Encapsulation of cytochrome C by multilayer microcapsules. A model for improved enzyme immobilization*, Journal of Membrane Science, Elsevier Scientific Publication Company. Amsterdam, NL, vol. 129, no. 2, 9 July 1997 (1997-07-09), pages 283-287, XP004084481

Gaumann, et al., *Effect of media composition on long-term in vitro stability of barium alginate and polyacrylic acid multilayer microcapsules*, Biomaterials, Elsevier Science Publishers BV., Barking, GB, vol. 21, no. 18, September 2000 (2000-09), pages 1911-1917, XP004207026

Pommersheim, et al., *Immobilization of enzymes by multilayer microcapsules*, Macro Chem Phsyics, vol 195, 1994, pages 1557-1567, XP000892044

Schneider, et al., *Multilayer capsules: a promising microencapsulation system for transplantation of pancreatic islets*, Biomaterials, Elsevier Science Publishers BV., Barking, GB, vol. 22, no. 14, 2001, pages 1961-1970, XP004245913

F. Lim, et al., *Microencapsulated Islets as Bioartificial Endocrine Pancreas*, Science Magazine, vol. 210, 1980, pages 908-910

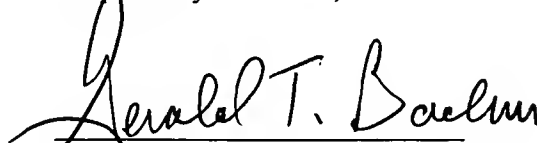
The above-referenced documents are listed on PTO Form 1449. We have enclosed the cited documents to facilitate reference to them. In conformance with the waiver of the copy requirement in 37 C.F.R. §1.98 for cited U.S. patents issued on August 5, 2003, no copy of the foregoing U.S. patent is enclosed.

A copy of the English version of the International Search Report for the corresponding PCT application serial no. PCT/EP2005/000927 is also submitted herewith.

English abstracts of the European and German patent documents are provided herewith. Full English translations are not readily available. All of the listed publications are in English, except for the first three Pommersheim articles listed on PTO Form 1449 for which English translations are not readily available (the sixth listed Pommersheim article is in English).

Applicant is not aware of any other references to be identified at this time. If the Examiner has any questions or comments relating to the present application, he or she is respectfully invited to contact Applicant's attorney at the telephone number set forth below. If any additional fees are due, please charge our Deposit Account No. 502335. A duplicate copy of this document is enclosed for that purpose.

Respectfully submitted,



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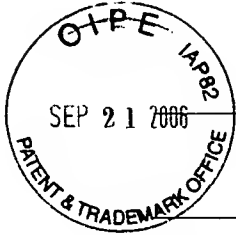
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U.S. DEPARTMENT OF COMMERCE
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1374-3 PCT/US

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SERIAL NO.
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STATEMENT BY APPLICANTAPPLICANT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
//SCP//	4,389,419	6/21/1983	Franklin Lim, et al.	426	72	November 10, 1980

U.S. PATENT DOCUMENTS

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U.S. PATENT APPLICATION PUBLICATIONS

EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
//SCP//							

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION	
						YES	NO
//SCP//	DE19644343A1	4/30/1998	Germany	B01	J13/02	Partial	
//SCP//	DE19918267A1	10/26/2000	Germany	C11	D10/00	Partial	
//SCP//	EP0782853B1	7/9/1997	Europe	A61	K9/52	Partial	
//SCP//	DE2215441	10/12/1972	Germany	C11D	17/00	Partial	
//SCP//	GB1471406	4/27/1977	Great Britain	C11D	10/02	X	
//SCP//	DE4312970A1	10/27/1994	Germany	B01	J13/02	Partial	

EXAMINER /S. Camilla Pourbohloul/ DATE CONSIDERED 01/27/2010

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication with applicant.

~~ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH.~~ //SCP//

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

//SCP//		Pommersheim, <i>Die Verkapselung</i> , Mehrschichtige Polelektrokomplex-Mikrokapselsysteme Zur Immobilisierung Von Enzymen Und Lebenden Zellen, 1994, pages 1-32, XP002968623.
//SCP//		Pommersheim, <i>Physikalische Eigenschaften der Kapsel</i> , Mehrschichtige Polelektrokomplex-Mikrokapselsysteme Zur Immobilisierung Von Enzymen Und Lebenden Zellen, 1994, pages 88-98, XP002968624.
//SCP//		Pommersheim, <i>Verkapselung von lebenden Zellen</i> , Mehrschichtige Polelektrokomplex-Mikrokapselsysteme Zur Immobilisierung Von Enzymen Und Lebenden Zellen, 1994, pages 1-24, XP002968625.
//SCP//		Riling, et al., <i>Encapsulation of cytochrome C by multilayer microcapsules. A model for improved enzyme immobilization</i> , Journal of Membrane Science, Elsevier Scientific Publication Company. Amsterdam, NL, vol. 129, no. 2, 9 July 1997 (1997-07-09), pages 283-287, XP004084481
//SCP//		Gaumann, et al., <i>Effect of media composition on long-term in vitro stability of barium alginate and polyacrylic acid multilayer microcapsules</i> , Biomaterials, Elsevier Science Publishers BV., Barking, GB, vol. 21, no. 18, September 2000 (2000-09), pages 1911-1917, XP004207026
//SCP//		Pommersheim, et al., <i>Immobilization of enzymes by multilayer microcapsules</i> , Macro Chem Physyics, vol 195, 1994, pages 1557-1567, XP000892044
//SCP//		Schneider, et al., <i>Multilayer capsules: a promising microencapsulation system for transplantation of pancreatic islets</i> , Biomaterials, Elsevier Science Publishers BV., Barking, GB, vol. 22, no. 14, 2001, pages 1961-1970, XP004245913
//SCP//		F. Lim, et al., <i>Microencapsulated Islets as Bioartificial Endocrine Pancreas</i> , Science Magazine, vol. 210, 1980, pages 908-910

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